



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/AEW/W.No.08/CSR.2/756c/CEMENT/2014-15

Date: 05.02.2015

TEST REPORT ON CEMENT



* CUSTOMER	:	Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* AGENCY	:	M/s. Annapoorneshwari Engineering Works, Bangalore.
* NAME OF THE WORK	:	Providing Cement Concrete to Roads at Kodigehalli Thindlu Main road (near Sundaresh Residency) and 21 st B Cross, 2 nd Main C Clock, Sahakaranagar link Road (Ganeshappa Residency) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/KH/143/2/2014-15 Dated: 04.02.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	04.02.2015
PERIOD OF TESTING	:	04.02.2015 to 05.02.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	27.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



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Job No.: CTCE/BBMP/AEW/W.No.08/CSR.2/756c/SAND-Gradation/2014-15

: 05.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
 * **Agency** : M/s. Annapoorneshwari Engineering Works, Bangalore.
 * **Name of Work** : Providing Cement Concrete to Roads at Kodigehalli Thindlu Main road (near Sundaresh Residency) and 21st B Cross, 2nd Main C Clock, Sahakaranagar link Road (Ganeshappa Residency) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KH/143/2/2014-15 Dated: 04.02.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 04.02.2015

Date of Testing : 05.02.2015



Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	91.74	90-100	90-100	90-100	95-100
2.36	80.27	60-95	75-100	85-100	95-100
1.18	56.02	30-70	55-90	75-100	90-100
600 Micron	29.67	15-34	35-59	60-79	80-100
300 Micron	12.93	5-20	8-30	12-40	15-50
150 Micron	5.08	0-10	0-10	0-10	0-15

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Remarks : This sample is under Zone-I specific limits.

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: 05.02.2015

TEST REPORT ON COARSE AGGREGATES

- * **Customer** : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
- * **Agency** : M/s. Annapoorneshwari Engineering Works, Bangalore.
- * **Name of Work** : Providing Cement Concrete to Roads at Kodigehalli Thindlu Main road (near Sundaresh Residency) and 21st B Cross, 2nd Main C Clock, Sahakaranagar link Road (Ganeshappa Residency) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
- Reference** : AEE/KH/143/2/2014-15 Dated: 04.02.2015
- Technical Reference** : IS : 2386 Part 1 -1963 RA-2007
- Sample ID** : Coarse Aggregates (40mm)
- Sample Received on** : 04.02.2015
- Date of Testing** : 05.02.2015

Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.78	95-100	85-100
20	50.93	30-70	0-20
10	26.28	10-35	0-5
4.75	2.80	0-5	-

* Information is furnished by the Customer/Representative

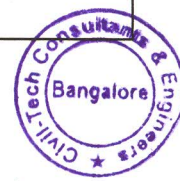
Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/AEW/W.No.08/CSR.2/756c/CUBE/2014-15



16.02.2015

TEST REPORT ON CONCRETE CUBES

- * **Client** : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
- * **Agency** : M/s. Annapoorneshwari Engineering Works, Bangalore.
- * **Name of the work** : Providing Cement Concrete to Roads at Kodigehalli Thindlu Main road (near Sundaresh Residency) and 21st B Cross, 2nd Main C Clock, Sahakaranagar link Road (Ganeshappa Residency) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
- * **Reference** : AEE/KH/143/2/2014-15 Dated: 04.02.2015
- * **Sample ID** : Pavement Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀
- Compressive Strength as on** : 7th day
- Sample Received on** : 09.02.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	09.02.2015	16.02.2015	8.135	336.3	14.95
2	09.02.2015	16.02.2015	8.256	345.2	15.34
3	09.02.2015	16.02.2015	8.341	350.2	15.56

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VISHWANATH .C
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17.02.2015

TEST REPORT ON CONCRETE CUBES

- * **Client** : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
- * **Agency** : M/s. Annapoorneshwari Engineering Works, Bangalore.
- * **Name of the work** : Providing Cement Concrete to Roads at Kodigehalli Thindlu Main road (near Sundaresh Residency) and 21st B Cross, 2nd Main C Clock, Sahakaranagar link Road (Ganeshappa Residency) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
- * **Reference** : AEE/KH/143/2/2014-15 Dated: 04.02.2015
- * **Sample ID** : Pavement Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₁₅
- Compressive Strength as on:** 7th day
- Sample Received on** : 10.02.2015

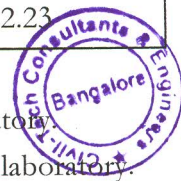
Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.02.2015	17.02.2015	8.197	250.3	11.12
2	10.02.2015	17.02.2015	8.286	261.2	11.61
3	10.02.2015	17.02.2015	8.312	275.1	12.23

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20.02.2015

TEST REPORT ON CONCRETE CUBES

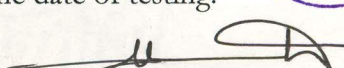
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- * Reference : AEE/KH/143/2/2014-15 Dated: 04.02.2015
- * Sample ID : Pavement Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀
- Compressive Strength as o: 28th day
- Sample Received on : 13.02.2015

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.02.2015	20.02.2015	8.187	326.3	14.50
2	13.02.2015	20.02.2015	8.263	344.8	15.32
3	13.02.2015	20.02.2015	8.394	352.7	15.68

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